

for example". In a library management system, phases include requirement analysis, system design, implementation testing, deployment and maintenance. Once a phase is finished, it doesn't return to previous stages.

when to use waterfall model?

· well understood requirements

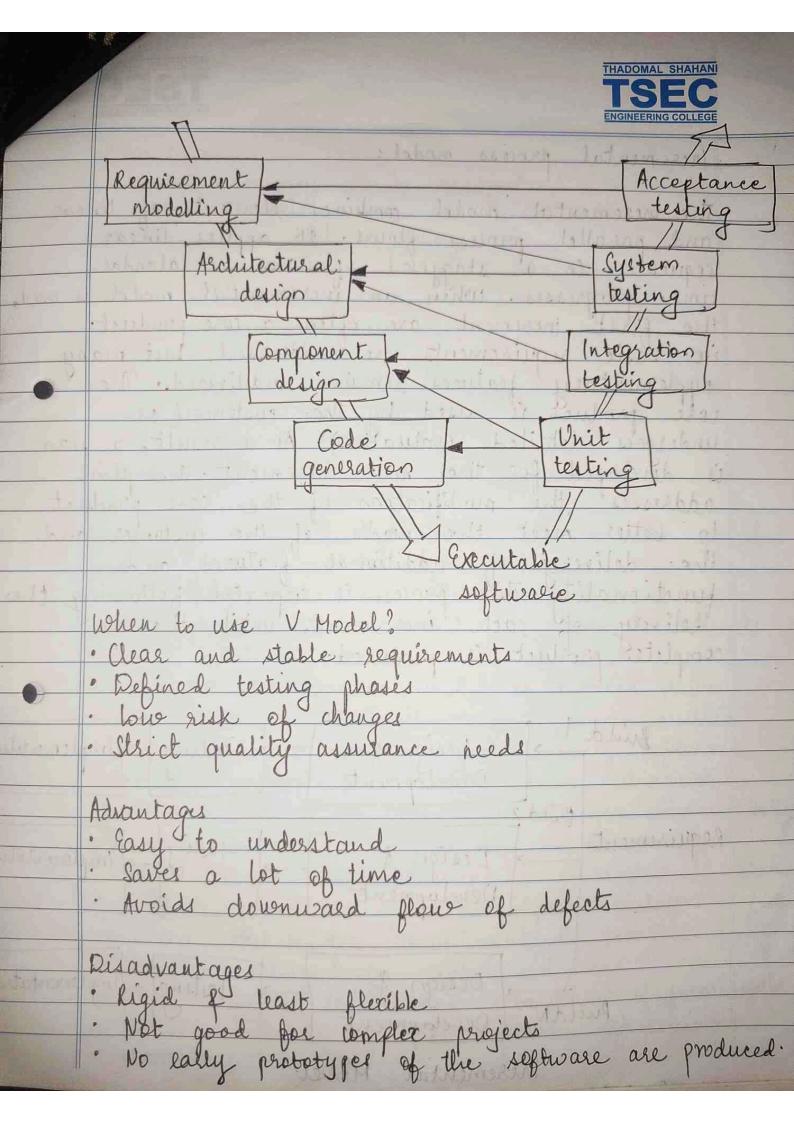
· very little changes expected

small to medium size projects dient prefers a linear & sequential approach limited resources

V Model:

A variation in the representation of the waterfall model is called the V-Model. It is also referred to as the verification and validation model. It depicts the relationship of quality assurance actions to the actions associated with communication Modeling and early construction activities. In the V-Model, as the team moves down the left side, requirements are refined into detailed solutions. once coding is done, they move up the right side, performing tests to validate each development phase, ensuring quality at every step.

Emple Judgespalanth Park And





Incremental process model: The incremental model combines elements of linear and parallel process flower. It applies linear sequences in a staggered pashion as calendar time progresses. When an incremental model is used the first increment are often a core product i'e basic requirements are addressed but many supplementary features remain undelivered. The or undergoes detailed evaluation). As a result, a plan is developed for the noct increment. The plan addresses the modification of the core product to better meet the reads of the sustance and the delivery of additional features and functionality. This process is repeated following the delivery of each increment, until the complete product is produced. Build Design &

Development

Requirements

Design &

Development Testing Implemen > Testing -> Implement > Testing Implement Avild N Development



Advantages:

· Errors are easy to be recognized.

More flexible.

- Easier to test of debug

Disadvantages:

Disadvantages:
· Cost is high
· Need for good planning
· Well defined module interfaces are needed.

Spiral Model:

Driginally proposed by Barry Boehn, the spiral model is an evolutionary software process model that copies the iterative nature of prototyping with controlled of systematic aspepts of the waterfall model The spiral debelopment model is a risk driven model generator that is used to guide multi-stakeholder concurrent engineering of software intensive systems. It has two main, distinguishing glowing a systems degree of definition of implementation while decreasing its degree of risk. The other is a set of anchor point milestones for onsuring stakeholder commitment to feasible of mutually satisfactory system solutions.

A spiral model is divided into a set of framework activities defined by the software engineeling

1. Objective resolve risks determination & identity appenate solutions 3: Develop next
version of
the product 4. Review f plan for the next place Advantages spiral model Advantages Risk handling Good for large projects Good for large projects

- Customer satisfaction

- Improved quality Disadvantages
Complee
Gangino · copensine · Too much dependability on risk analysis Spiral model deliver high-quality software by promotive the risk identification, itelative development and continuous dient feedbackspiralishemaa is projecte, is vast in software engineering, a